|                     | Learning to F     | ly: The Wright | Brother's Adventure   |
|---------------------|-------------------|----------------|---|
|                     |                   | 2005 Scier     | nce   |
|                     | ,                 | Course of S    | tudy  |
| Alabama Science     |                   |                |   |
| Grades K-12         |                   |                |   |
| Activity/Lesson     | State             | Standards      |   |
|                     |                   |                | Conveying oral or written information verbally                                    |
| 1901: The First     |                   | 00114.40.0     | as well as visually through models, tables,                                       |
| Improvement         | AL                | SCI.K-12.2     | charts, and graphs  |
|                     |                   |                | Recognizing the many factors that affect the                                      |
|                     |                   |                | outcome of events and understanding their relationships to each other whereby one |
| 1901: The First     |                   |                | factor (variable) can be manipulated while  |
| Improvement         | AL                | SCI.K-12.1     | others are controlled   |
| Improvement         | AL                | 3CI.R-12.1     | Conveying oral or written information verbally                                    |
| 1904: Improvement   |                   |                | as well as visually through models, tables,                                       |
| in Dayton           | AL                | SCI.K-12.2     | charts, and graphs  |
| III Dayton          | 712               | 001.10 12.2    | onario, and graphs  |
|                     | Learning to F     | lv: The Wright | Brother's Adventure   |
|                     |                   | 2005 Scier     |   |
|                     |                   | Course of S    |   |
| Alabama Science     |                   |                |   |
| Grade 8             |                   |                |   |
| Activity/Lesson     | State             | Standards      |   |
| 1901: The First     |                   |                | Identifying controls and variables in a   |
| Improvement         | AL                | SCI.8.1.2      | scientific investigation  |
|                     |                   |                | Defining terminology such as action and   |
| 1901: The First     |                   |                | reaction forces, inertia, acceleration,   |
| Improvement         | AL                | SCI.8.8.1      | momentum, and friction  |
| 1901: The First     |                   |                | Describing the effect of force on pressure in                                     |
| Improvement         | AL                | SCI.8.9.1      | fluids  |
| 1004                |                   |                | Defining terminology such as action and   |
| 1904: Improvement   |                   | 001.0.0.4      | reaction forces, inertia, acceleration,   |
| in Dayton           | AL                | SCI.8.8.1      | momentum, and friction  |
| 1904: Improvement   | Δ1                | 001004         | Describing the effect of force on pressure in                                     |
| in Dayton           | AL                | SCI.8.9.1      | fluids  |
|                     | Loarning to E     | ly: The Wright | Brother's Adventure   |
|                     | Learning to F     | 2005 Scier     |   |
|                     |                   | Course of S    |   |
| Alabama Science     |                   | 334136 01 0    | ·····   |
| Grades 9-12 (Physic | cal Science Core) |                |   |
| Activity/Lesson     | State             | Standards      |   |
| ,                   |                   |                | Identify metric units for mass, distance, time,                                   |
| Wright Brothers:    |                   | SCI.9-         | temperature, velocity, acceleration, density,                                     |
| 1900 Glider         | AL                | 12.PS.12       | force, energy, and power.   |
|                     |                   |                | Identify metric units for mass, distance, time,                                   |
| Wright Brothers:    |                   | SCI.9-         | temperature, velocity, acceleration, density,                                     |
| 1901 Glider         | AL                | 12.PS.12       | force, energy, and power.   |
|                     |                   |                | Identify metric units for mass, distance, time,                                   |
| Wright Brothers:    |                   | SCI.9-         | temperature, velocity, acceleration, density,                                     |
| 1902 Glider         | AL                | 12.PS.12       | force, energy, and power.   |

|                     |                |   | Identify metric units for mass, distance, time, |
|---------------------|----------------|---|---|
| Wright Brothers:    |                | SCI.9-                                  | temperature, velocity, acceleration, density,   |
| 1903 Flyer          | AL             | 12.PS.12                                | force, energy, and power.                       |
| 1901: The First     |                | SCI.9-                                  | Solving problems for velocity, acceleration,    |
| Improvement         | AL             | 12.PS.7.2                               | force, work, and power                          |
|                     | , . <u> </u>   |   |   |
|                     |                |   | Describing action and reaction forces,          |
| 1901: The First     |                | SCI.9-                                  | inertia, acceleration, momentum, and friction   |
| Improvement         | AL             | 12.PS.7.3                               | in terms of Newton's three laws of motion       |
|                     | , . <u>_</u>   | 1 2 3 3 1 1 5                           | Identify metric units for mass, distance, time, |
|                     |                | SCI.9-                                  | temperature, velocity, acceleration, density,   |
| New Data            | AL             | 12.PS.12                                | force, energy, and power.                       |
|                     | , . <u>_</u>   | 1 2 2 2 2                               | Identify metric units for mass, distance, time, |
| 1902: Success at    |                | SCI.9-                                  | temperature, velocity, acceleration, density,   |
| Last                | AL             | 12.PS.12                                | force, energy, and power.                       |
|                     | , . <u>_</u>   | 1 2 2 2 2                               | Identify metric units for mass, distance, time, |
| 1903: Powered       |                | SCI.9-                                  | temperature, velocity, acceleration, density,   |
| Flight              | AL             | 12.PS.12                                | force, energy, and power.                       |
| 1904: Improvement   | , . <u>_</u>   | SCI.9-                                  | Solving problems for velocity, acceleration,    |
| in Dayton           | AL             | 12.PS.7.2                               | force, work, and power                          |
| <b>,</b>            |                | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ,, p  |
|                     |                |   | Describing action and reaction forces,          |
| 1904: Improvement   |                | SCI.9-                                  | inertia, acceleration, momentum, and friction   |
| in Dayton           | AL             | 12.PS.7.3                               | in terms of Newton's three laws of motion       |
| -                   |                |   |   |
|                     |                |   |   |
|                     | Learning to FI | y: The Wright B                         | rother's Adventure                              |
|                     |                | 2005 Science                            | е   |
|                     |                | Course of Stu                           | ıdy   |
| Alabama Science     |                |   |   |
| Grades 9-12 (Physic | cs Core)       |   |   |
| Activity/Lesson     | State          | Standards                               |   |
| 1901: The First     |                | SCI.9-                                  |   |
| Improvement         | AL             | 12.PH.1.2                               | Describing forces that act on an object         |
|                     |                |   | Describe quantitative relationships for         |
| 1901: The First     |                |   | velocity, acceleration, force, work, power,     |
| Improvement         | AL             | SCI.9-12.PH.4                           | potential energy, and kinetic energy.           |
| 1904: Improvement   |                | SCI.9-                                  |   |
| in Dayton           | AL             | 12.PH.1.2                               | Describing forces that act on an object         |
|                     |                |   | Describe quantitative relationships for         |
| 1904: Improvement   |                |   | velocity, acceleration, force, work, power,     |
| in Dayton           |                | SCI.9-12.PH.4                           |   |